SKF Brakemaster family of air dryers
Desiccant cartridge installation instructions

**WARNING** Read, understand and follow safety precautions and instructions and in the labels attached to the dryer system. Failure to do so could result in serious injury, death and property damage.

<table>
<thead>
<tr>
<th>Desiccant cartridge kit no.</th>
<th>Single Dryer models</th>
<th>Dual Dryer models (requires 2 kits)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T334</td>
<td>Turbo-3000</td>
<td></td>
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</tbody>
</table>

Filtration Plus T224-P includes extra filters to protect the desiccant and lengthen service intervals. Add one year to the following chart. Turbo-2000, HD-2000 and Turbo-3000 can be upgraded with this service kit. Dual Turbo-2000 and HC Dual Turbo-2000 include Filtration Plus as standard.

**Typical service intervals:**
- Line haul: 3 years
- Inner city: 2 years
- Refuse/transit: 1 year
- Off highway: 1 year

It is a good idea to service the turbo valve #228 (Turbo-2000, Turbo-3000), inlet check valve #619938 (Dual Turbo-2000, HC Dual Turbo-2000) and purge valve #235 (all dryers/2 per dual dryers) at this time.

<table>
<thead>
<tr>
<th>Air Dryer</th>
<th>Full service kit</th>
<th>Filtration Plus full service kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turbo-2000</td>
<td>619340</td>
<td>619360</td>
</tr>
<tr>
<td>HC Turbo-2000 / Dual Turbo-2000</td>
<td>619979</td>
<td></td>
</tr>
</tbody>
</table>
Warning: Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

Caution: Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

Reminder: Indicates suggestions for proper use.

Safety warnings:
1. Read entire instructions before installation or servicing of the air dryer.
2. Before performing installation or service of air dryer, the vehicle’s wheels must be chocked. Never work under a vehicle supported only by a jack. Always support the vehicle with stands. Block the wheels and make sure the vehicle will not roll before releasing brakes.
3. Stop engine when working under vehicle.
4. Never connect or disconnect a hose/line containing air pressure or remove a component, fitting or pipe plug unless you are certain all system air pressure has been exhausted.
5. Always wear proper eye protection when installing and/or servicing air dryer. Never look directly into air dryer exhaust ports.
6. Never exceed recommended maximum working air pressure of 150 psig.
7. Never attempt to service an air dryer until you have read and understood all recommended procedures.
8. Use only proper tools and observe all precautions pertaining to the use of those tools.

Removal instructions:
*Steps required for service kit T224-P only.
1. **Warning:** Relieve all air system.
2. Check and air tanks (purge tank included) for accumulated moisture and drain.
3. *Disconnect heater lead wire from air dryer.
4. *Disconnect inlet and control lines from their respective ports.
5. Using a strap wrench, turn the desiccant cartridge counterclockwise and remove. Discard.
   a. If cartridge spins without loosening, place a thin blade between cartridge gasket and base to break seal.
   b. If above does not work, strike cartridge with a center punch or ball nose at the lower end where the diameter is slightly larger and loosen.
6. Remove and discard o-ring and filter element (if present).
7. Inspect base stud for thread damage and to be sure it has not loosened in the base.
   **Warning:** DO NOT RE-USE a stud that has damage or has loosened. A new adaptor base is needed.
8. *Remove bolts from bottom housing and set aside.
10. *Remove filter plate and gasket from bottom housing and discard.
11. *Clean sump cavity, gasket surface and bottom side of adaptor base of oil and contaminants.

Installation instructions:
*Steps required for service kit T224-P only.
1. *Place new gasket on bottom housing bolt flange
2. *Place new filter plate into bottom housing cavity and position as shown below with arrow pointed toward inlet port.
3. *Reinstall bottom housing to adaptor base.
5. Clean top surface of adaptor base and threaded stud.
8. **Reminder:** Important for easy removal: Apply a generous coat of grease on the new desiccant cartridge gasket surface.
9. Thread new cartridge onto stud turning clockwise. When gasket contacts adaptor plate, tighten cartridge ½” turn.
   **Reminder:** DO NOT OVERTIGHTEN or future removal may be difficult.
10. *Reconnect airlines to air dryer inlet and control ports.

Operational check:
1. Close drain cocks on all reservoirs.
2. Start engine and allow pressure in air system to build to required (cut-out) pressure.
3. Check airline fittings for leaks and repair any leaks.
4. Allow vehicle air compressor to cycle a few times through low (cut-in) and high (cut-out) pressures by applying vehicle brakes to release system air pressure.